

Title (en)
EXHAUST GAS PURIFYING APPARATUS

Title (de)
ABGASREINIGUNGSGERÄT

Title (fr)
APPAREIL DE PURIFICATION DE GAZ D'ÉCHAPPEMENT

Publication
EP 2141333 A4 20110427 (EN)

Application
EP 08740674 A 20080418

Priority
• JP 2008057627 W 20080418
• JP 2007117573 A 20070426

Abstract (en)
[origin: EP2141333A1] Disclosed is an exhaust gas purifying apparatus which can purify NOx over a wide temperature region from a low temperature region to a high temperature region. Specifically disclosed is an exhaust gas purifying apparatus (10) disposed in an exhaust path of an internal combustion engine (20) for purifying the exhaust gas discharged from the internal combustion engine (20). This exhaust gas purifying apparatus (10) is characterized by including a first purifying unit (11) disposed at an upstream side of the exhaust path and having a three-way catalyst, and a second purifying unit (12) disposed downstream of the first purifying unit (11). This exhaust gas purifying apparatus (10) is further characterized in that the second purifying unit (12) includes a first NOx purifying section (13) having at least one kind of NOx catalyst, and a second NOx purifying section (14) disposed downstream of the first NOx purifying section (13) and having a NOx catalyst having a higher operating temperature than the NOx catalyst in the first NOx purifying section (13).

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Citation (search report)
• [XJ] EP 0878609 A2 19981118 - TOYOTA MOTOR CO LTD [JP]
• [A] EP 1662124 A1 20060531 - FORD GLOBAL TECH LLC [US]
• [E] EP 1949959 A1 20080730 - TOYOTA MOTOR CO LTD [JP]
• See references of WO 2008136287A1

Cited by
US9737878B2

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